

Mr. J. M. Aldrich, lately of Lawrence, Kansas and formerly entomologist to the experiment station at Brookings, S. Dakota, has been appointed entomologist to the experiment station at Moscow, Idaho.

Rübsaamen has published in the Berliner entomologische zeitschrift (v. 37) a systematic study of the Cecidomyiidae of the Berlin museum, accompanied by 14 plates illustrating the structure of the wings, abdominal appendages, antennae, head, pupae and "breast bone". They are divided into 2 sub-families and 23 genera, 4 of them new; 80 species are considered.

The first (double) number of the same journal for 1893 is given up to the first installment of a description by Karsch of the insects of Adeli, West Africa, consisting of the Apterygota, Odonata, Orthoptera saltatoria, and butterflies.

Aldrich publishes in the first part of vol. 2 of the Kansas university quarterly a revision of the N. American species of the dipteran genera *Dolichopus* and *Hygrocheilus*, 81 of the former (21 new) and 5 of the latter (1 new). An excellent plate is added, especially devoted to antennae.

Moore's *Lepidoptera Indica* (part 15) is still occupied with the *Satyrinae*; the early stages of only one species are figured, but the wet-season and dry season broods of eight species are distinguished.

PROCEEDINGS OF SOCIETIES.

CAMBRIDGE ENTOMOLOGICAL CLUB.

14 April, 1893.—The 178th meeting was held at 156 Brattle St., Mr. S. Henshaw in the chair. Mr. H. A. Morgan of Baton Rouge, La., was elected to active membership.

Mr. S. H. Scudder showed the fossil fly from Florissant which he had described under

the name of *Mycetophactus intermedius*. Owing to a suggestion of M. Ch. Brongniart of Paris he had re-examined the specimen and found that he had been mistaken in referring it to the *Mycetophilidae*, since the antennae are brief and not very long as he had supposed and the relative stoutness of the legs showed that notwithstanding its apparently spurred tibiae and small size it belonged to the neighboring family *Bibionidae* and to the genus *Penthetria*, an existing genus already well-known in tertiary deposits.

Mr. A. G. Mayer remarked on the lepidopterous fauna of the Bahamas which he had just visited. All the species found by him, with the exception of a *Utetheisa*, are strong fliers, as the weak fliers are blown off shore by the trade winds. *Anosia plexippus* was seen as well as species of *Pieridae*, *Heliconidae* and *Hesperidae*. The fauna and flora seem derived largely from the United States, though in part from South America.

Mr. Scudder called attention to a recent paper by Hampson on stridulation in *Lepidoptera* and said he had heard a clicking sound from *Polygonia faunus* on Mt. Washington, N. H. Mr. Mayer said he had observed the same in *P. interrogationis*.

Mr. A. P. Morse exhibited specimens of the pupae and imagines of a moth found feeding on woolens; also the opened egg cocoon of a spider which in nature bore a considerable resemblance to an oak apple.

Dr. H. S. Pratt stated that he had recently been engaged in studying the embryology of the sheep tick. The head is developed in the embryo but is concealed in the larva by two imaginal disks, which are formed by invagination on the dorsal side at some distance from the anterior end; they remain latent during the larval state and in the pupa are developed into the head. The larva bears considerable resemblance to that of the fly.

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